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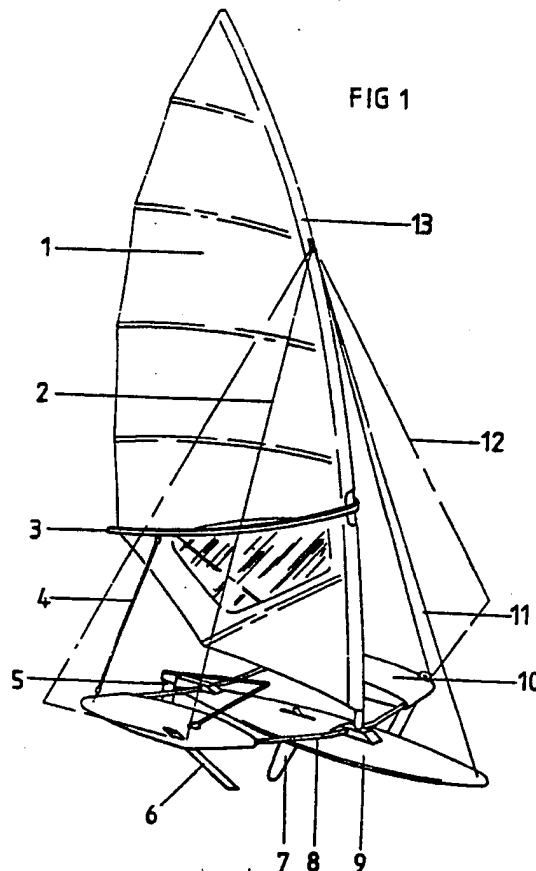
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GB 1348698 A US 4771716 A US 4688504 A
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(54) High speed sailboat

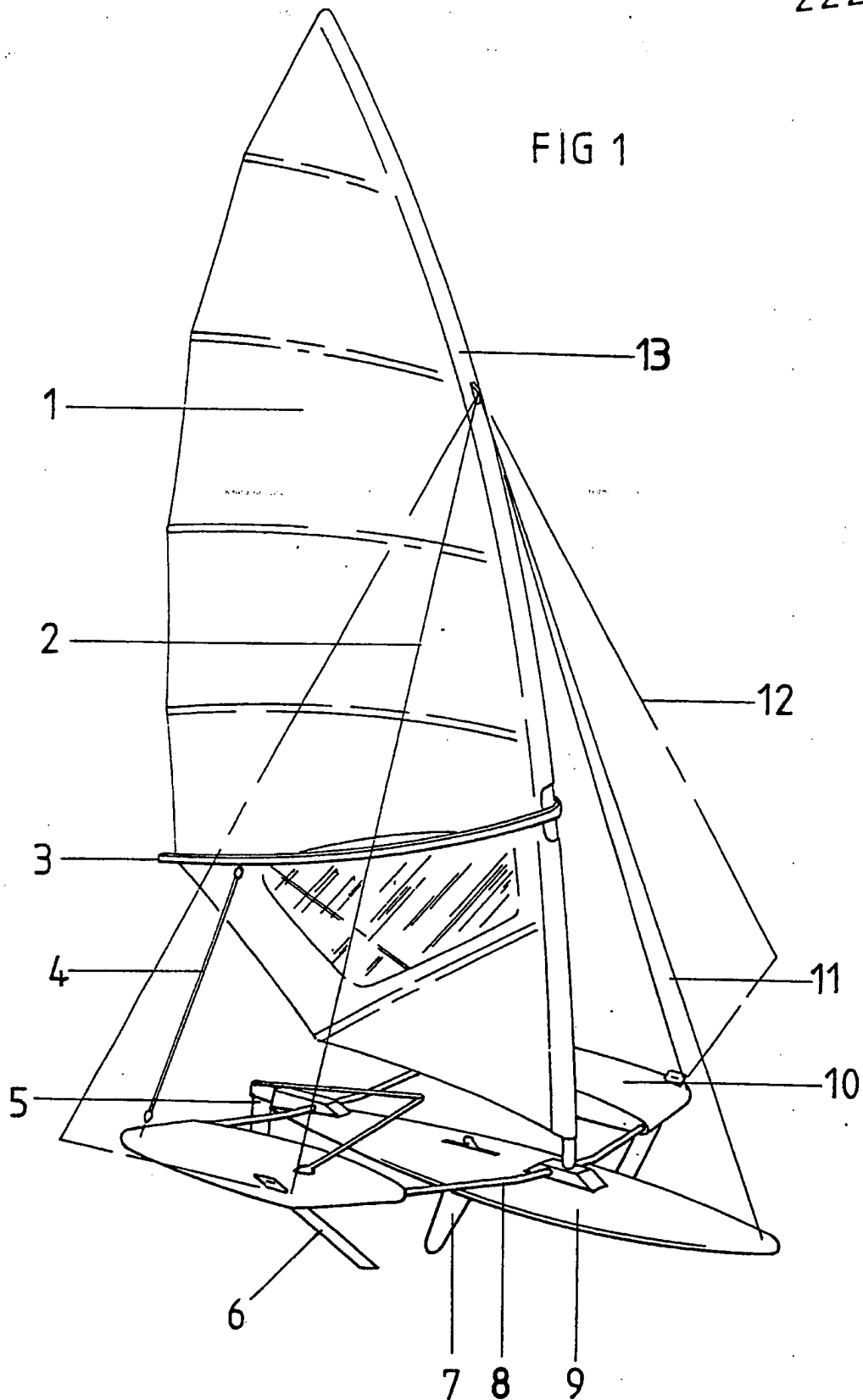
(57) A sailboat that is stabilised by hydrofoils (6) mounted on outrigger seats/floats (10) and/or by crew movement. The boats stability while sailing correctly is not dependent upon the buoyancy or hydrodynamic lift provided by the outrigger seats/floats (10).



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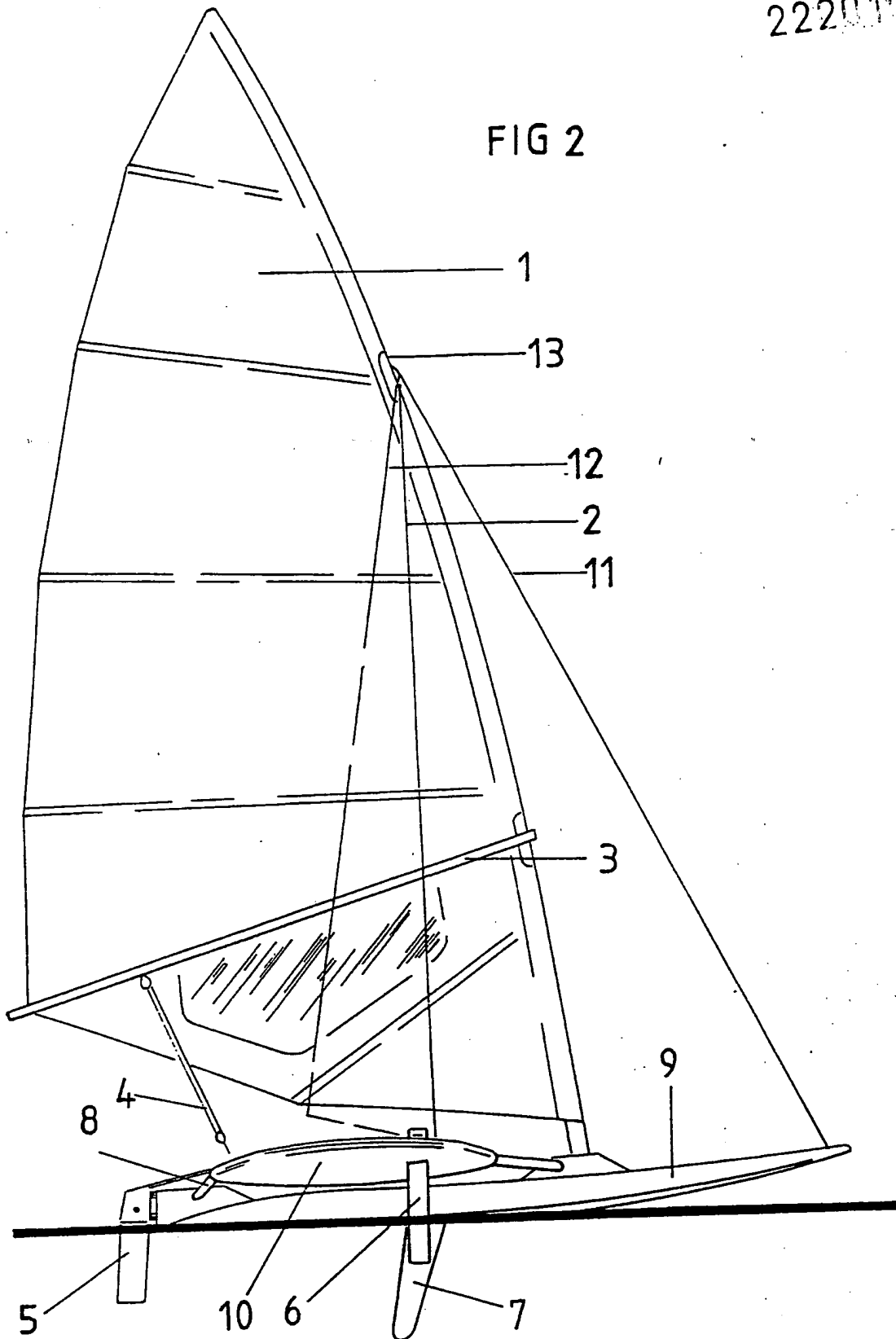
FIG 1



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FIG 2



HIGH SPEED SAILBOAT

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This invention relates to a high speed sailboat.

There are many different types of high speed sailboats ranging from a simple windsurfer (sailboard) to modern high performance multihulls. Expence and complication seem to come hand in hand whenever ones aim is to sail as fast as possible when on the water.

According to the present invention there is provided a type of high speed sailboat that combines the simplicity of design and strength of construction of a surfboard type hull with the speed and stability inherent in multihulls.

A specific embodiment of the invention will now be described by way of example with reference to the following drawings in which :-

FIG.1. Shows an artists illustration of the complete sailboat.

FIG.2. Shows a side elevation of the sailboat while sailing correctly.

Referring to FIG's I and 2 the sailboat comprises of a narrow surfboard type hull (9) supporting the mast (I3), outriggers (8), daggerboard (7) and rudder (5). The outriggers (8) support the seats/floats (I0) and hydrofoils (6). The mast (I3) is supported by a standard forestay (II) and shroud (2) arrangement, and trapezees (I2) are attached to the mast (I3).

The sailboat may be sailed in two distinctly different ways as outlined below. Please note that the text describes the boat as being sailed by one person i.e. the helmsman, although the boat may be sailed by two or more people at the same time.

(I) The helmsman may either sail the boat while in a seated or standing position without the hydrofoils being attached to the seats/floats (I0), the hydrofoils (6) thus being detachable from the sailboat.

(II) The helmsman may either sail the boat while in a seated or standing position with either one or both of the hydrofoils (6) in the water.

When the sailboat is moving at speed the helmsman should adjust the boats attitude to the water surface so that the boat sails in an upright manner without either of the seats/floats (I0) touching the water. FIG.2. illustrates the boat sailing at speed clearly showing the seats/floats (I0) well clear of the water surface (shown as a thick horizontal line).

CLAIM.

- (1) A sailboat comprising of a narrow surfboard type hull supporting a sailrig, daggerboard, rudder and outriggers. Attached to the outriggers are seats/floats and hydrofoils.
- (2) A sailboat as claimed in claim (1) on which the seats/floats do not provide any buoyancy or hydrodynamic lift while the boat is sailing correctly.
- (3) A sailboat as claimed in claim (1) on which one or both hydrofoils may be totally immersed, partially or fully retracted from the water.